

Recombinant Human GGH Protein (Met1-Asp318), His-tagged

Cat. No. GGH-549H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GGH Protein (NP_003869.1) (Met1-Asp318) was produced by HEK293 Cells expression system. This protein was expressed with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	Met1-Asp318
Description	gamma-Glutamyl hydrolase (GGH) regulates intracellular folates and antifolates such as methotrexate (MTX) for proper nucleotide biosynthesis and antifolate-induced cytotoxicity, respectively. GGH is a ubiquitously-expressed enzyme that regulates intracellular folate metabolism for cell proliferation, DNA synthesis, and repair. cytoplasmic GGH might play a relevant role in the development and progression of invasive breast cancer.
Predicted N Terminal	Arg 25
Form	Lyophilized from sterile 20 mM Tris, 150 mM NaCl, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant human GGH consists of 305 amino acids and predicts a molecular mass of 35.1 kDa.

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Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	GGH gamma-glutamyl hydrolase (conjugase, folylpolygammaglutamyl hydrolase) [Homo sapiens]
Official Symbol	GGH
Synonyms	GGH; gamma-glutamyl hydrolase; gamma-Glu-X carboxypeptidase; GH;
Gene ID	8836
mRNA Refseq	NM_003878

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Protein Refseq	NP_003869
MIM	601509
UniProt ID	Q92820

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